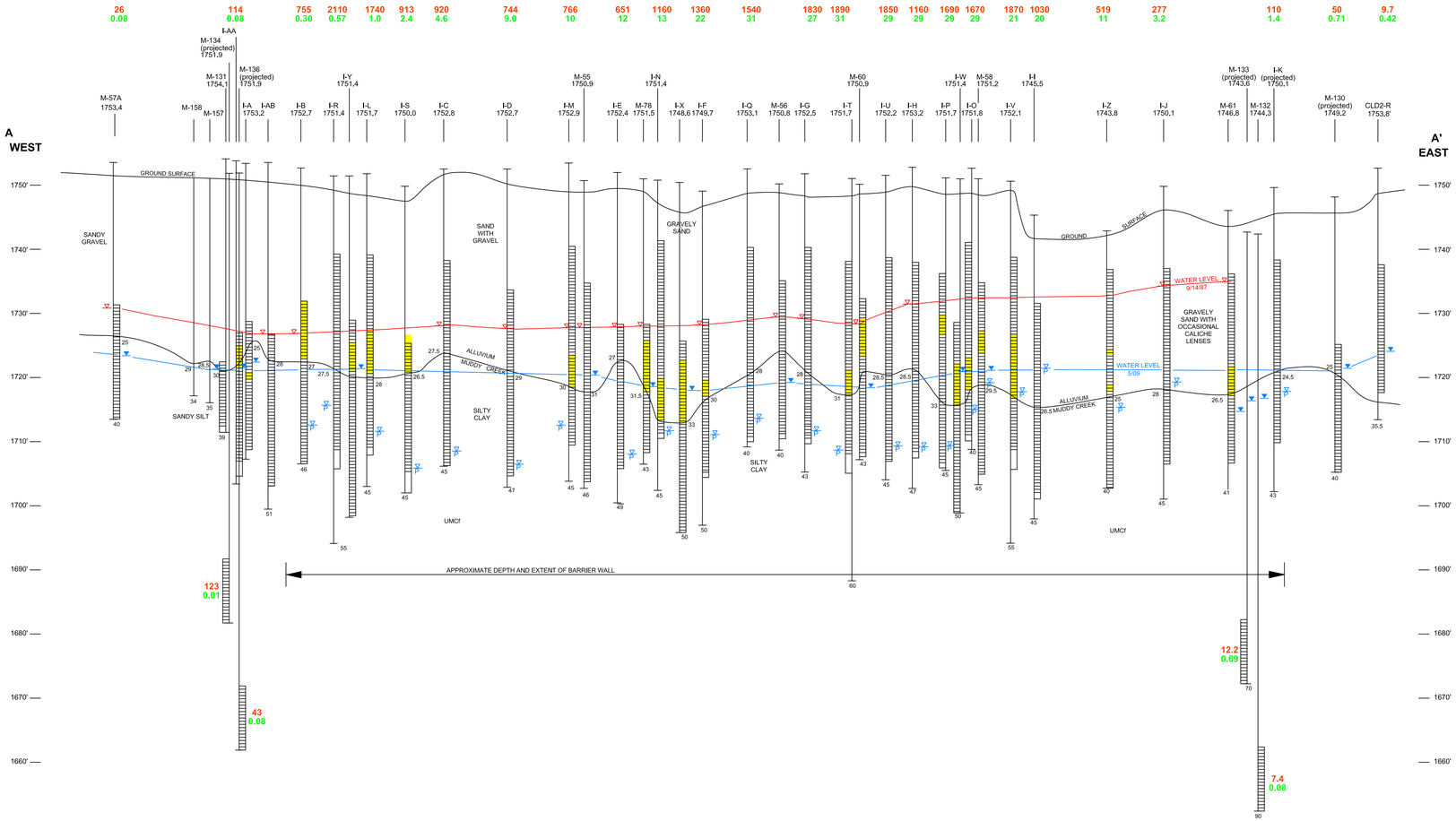

LEGEND

1750.0' TOP OF CASING ELEVATION

SCREENED INTERVAL
(D) DEEP
(M) MIDDLE
(S) SHALLOW

CALICHIFIED ZONE

BLANK CASING

40' ALLUVIUM-MUDDY CREEK FM CONTACT (FT BGS)
UMCf - UPPER MUDDY CREEK FORMATION

57' TOTAL DEPTH (FT BGS)

STATIC WATER LEVEL PRIOR TO INITIAL PUMPING

GROUNDWATER LEVELS MEASURED MAY 2009

PUMPING WELL, MAY 2009

1.9 PERCHLORATE CONCENTRATION AS OF MAY 2009 (mg/L)
ND <0.004 mg/L

1.9 TOTAL CHROMIUM CONCENTRATION AS OF MAY 2009 (mg/L)
ND <0.01 mg/L

VERTICAL SCALE IN FEET: 0', 5', 10'
HORIZONTAL SCALE IN FEET: 0', 50', 100'

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TRONOX

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY: E. Krish
DRAWN BY: NGEM
CHECKED BY: NGEM
APPROVED BY: NGEM

WEST - EAST HYDROGEOLOGIC CROSS SECTION A-A' INTERCEPTOR WELL FIELD MAY 2009

Interim Groundwater Capture Evaluation and Vertical Delineation Report
Tronox Facility, Henderson, Nevada

SCALE: as noted
DATE: 12/22/09
PROJECT NUMBER: 2027.02

PLATE NUMBER: 1

SHEET NUMBER: X

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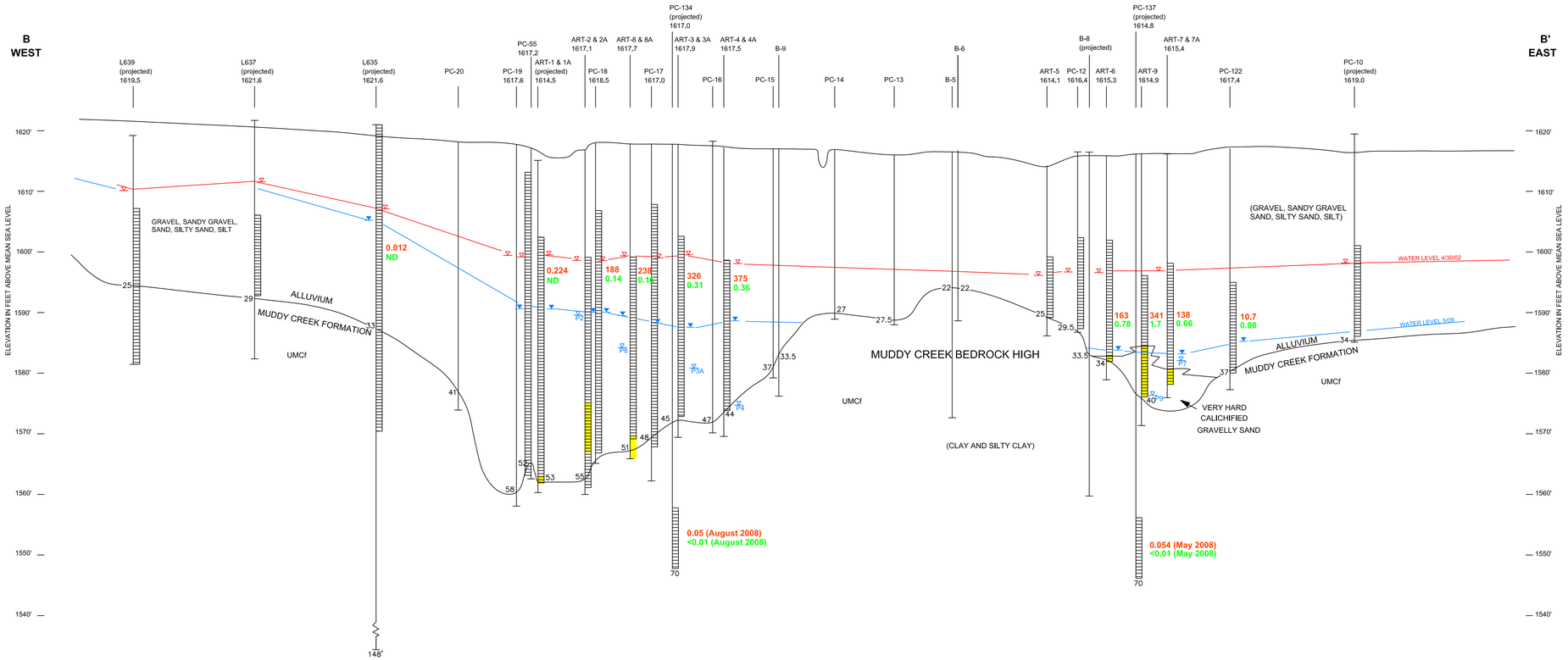

LEGEND

1750.0' TOP OF CASING ELEVATION

SCREENED INTERVAL
(D) DEEP
(M) MIDDLE
(S) SHALLOW

CALICHIFIED ZONE

BLANK CASING

40' ALLUVIUM-MUDDY CREEK FM CONTACT (FT BGS)
UMCf - UPPER MUDDY CREEK FORMATION

57 TOTAL DEPTH (FT BGS)

STATIC WATER LEVEL PRIOR TO INITIAL PUMPING

GROUNDWATER LEVELS MEASURED MAY 2009

P PUMPING WELL AND WELL NAME, MAY 2009

1.9 PERCHLORATE CONCENTRATION AS OF MAY 2009 (mg/L)
ND <0.004 mg/L

1.9 TOTAL CHROMIUM CONCENTRATION AS OF MAY 2009 (mg/L)
ND <0.01 mg/L

VERTICAL SCALE IN FEET: 10', 5', 0'
HORIZONTAL SCALE IN FEET: 0', 50', 100'

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DESIGNED BY: NGEM
DRAWN BY: NGEM
CHECKED BY: NGEM
APPROVED BY: NGEM

WEST - EAST HYDROGEOLOGIC CROSS SECTION B-B'
ATHENS ROAD WELL FIELD
MAY 2009

Interim Groundwater Capture Evaluation and Vertical Delineation Report
Tronox Facility, Henderson, Nevada

SCALE: as noted
DATE: 03/15/10
PROJECT NUMBER: 2027.02

PLATE NUMBER: 2

SHEET NUMBER: X

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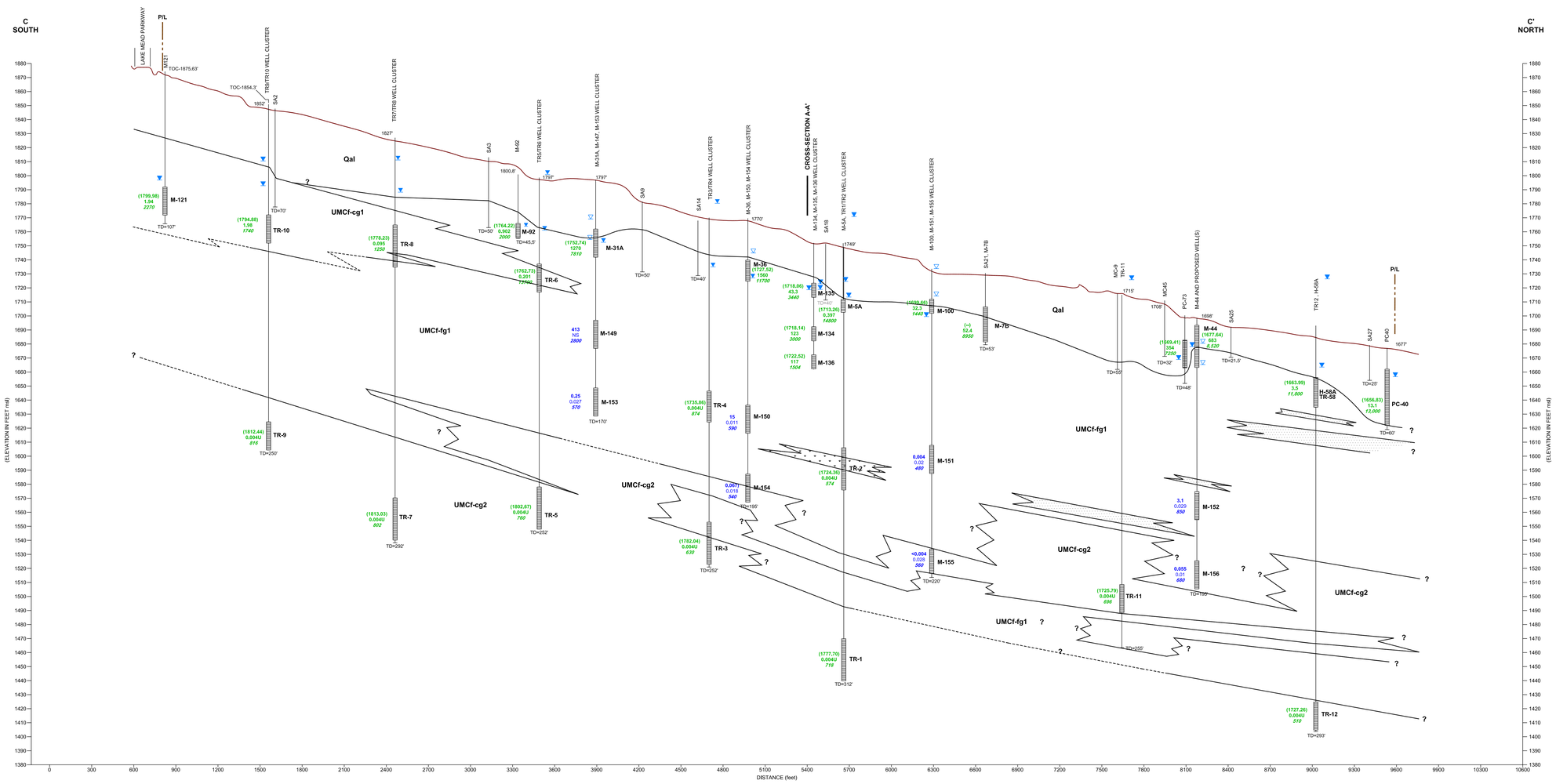
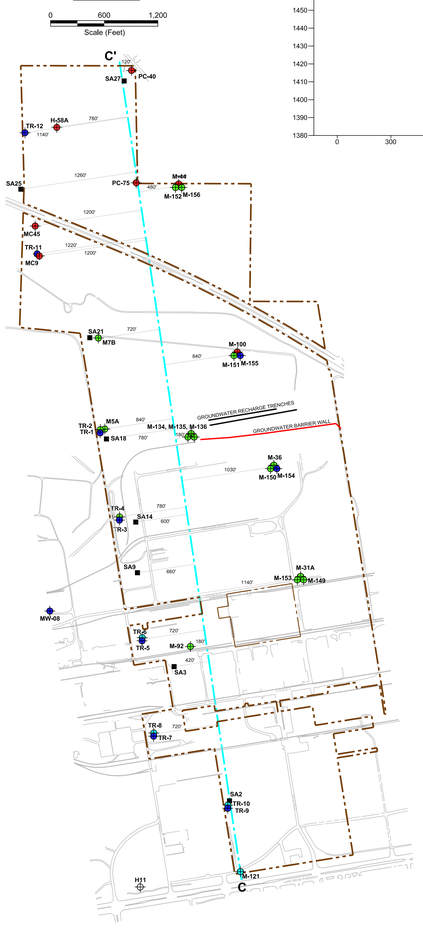


INDEX MAP



SCALE

30'
0'
0'
300'

(–) GROUNDWATER ELEVATION (MAY 2009)

1.1 / 2810 — PERCHLORATE CONCENTRATION (MAY 2009) IN milligrams / liter (mg/L); TOTAL DISSOLVED SOLIDS (MAY 2009) IN milligrams / liter (mg/L)

0.055 / 0.01 / 680 — PERCHLORATE CONCENTRATION (NOVEMBER 2009) IN milligrams / liter (mg/L); TOTAL CHROMIUM CONCENTRATION (NOVEMBER 2009) IN milligrams / liter (mg/L); TOTAL DISSOLVED SOLIDS (NOVEMBER 2009) IN milligrams / liter (mg/L)

"U" NOT REPORTED AT THE PRACTICAL QUANTITATION LIMIT SHOWN

(–) NO WATER LEVEL

NS NOT SAMPLED

TR-1 — EXISTING BORING/WELL IDENTIFICATION

1799' — GROUND SURFACE ELEVATION (ft, msl)

GROUNDWATER LEVEL (MAY 2008)

SCREEN INTERVAL

TR-1 — WELL (SCREEN) IDENTIFICATION

TD=140' — TOTAL DEPTH OF BORING/WELL

LEGEND

- Qal — QUATERNARY ALLUVIUM
- UMCf-fg1 — MUDDY CREEK FORMATION FINE-GRAINED FACIES #1
- MUDDY CREEK FORMATION FINE-GRAINED FACIES #1 SILTY SAND AND SANDY BED
- MUDDY CREEK FORMATION FINE-GRAINED FACIES #1 VOLCANIC ASH DEPOSIT
- UMCf-cg1 — MUDDY CREEK FORMATION COARSE-GRAINED FACIES #1
- UMCf-cg2 — MUDDY CREEK FORMATION COARSE-GRAINED FACIES #2
- C — C' LINE OF GEOLOGICAL SECTION
- PROPERTY BOUNDARY
- MONITORING WELL WITH SCREEN IN THE ALLUVIAL AQUIFER (Qal)
- MONITORING WELL WITH SCREEN IN THE MUDDY CREEK FINE GRAIN FACIES (MCf1)
- MONITORING WELL WITH SCREEN IN THE MUDDY CREEK COARSE GRAIN FACIES 1 (MCc1)
- MONITORING WELL WITH SCREEN IN THE MUDDY CREEK COARSE GRAIN FACIES 2 (MCc2)

REFERENCE:

APPENDIX A - ANNUAL REMEDIAL PERFORMANCE REPORT FOR CHROMIUM AND PERCHLORATE, JULY 2009 THROUGH JUNE 2009 [TRONOX LLC, HENDERSON, NEVADA] (AUGUST 2009)

HYDROSTRATIGRAPHIC NOMENCLATURE FOLLOWS UNIFIED HYDROGEOLOGIC NOMENCLATURE PROPOSED BY NDEP IN JANUARY 6, 2009 LETTER

INFORMATION ON WELLS MC-9 AND H58A PROVIDED TO TRONOX BY ED MODIANO IN AN EMAIL TO SUSAN CROWLEY (9-23-2008)

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
NGEM	NGEM	NGEM	NGEM

SOUTH - NORTH HYDROGEOLOGIC CROSS SECTION C-C'

Interim Groundwater Capture Evaluation and Vertical Delineation Report
Tronox Facility, Henderson, Nevada

SCALE:	DATE:	PROJECT NUMBER:
as noted	03/15/10	2027.02

PLATE NUMBER: 3

SHEET NUMBER: X

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